



OFFICE OF THE STATE AUDITOR

DATA INTEGRATION SPECIALIST

Posting Number 2022-42

SALARY RANGE: (CSA929) Grade 14: \$71,963.84 -- \$92,000.00/yr. (Commensurate with experience)

GENERAL STATEMENT OF DUTIES

The Data Integration Specialist plans, coordinates and performs activities related to integration of data and systems to build and maintain data operations that ingest, transform and provision data across various sources to address key information needs of the OSA and enhance the OSA's efforts to assimilate data analytics into its work processes.

Please note that in response to COVID-19, OSA has developed a hybrid work model. Beginning in January 2021, employees will be expected to work 40% of their work week in office, with 60% telecommuting. Also, as a requirement of employment, all OSA employees are required to provide proof of COVID-19 vaccination, or provide a negative COVID-19 PCR test weekly in order to access offices or worksites.

SUPERVISION RECEIVED

Receives general supervision and direction from the Director of Data Analytics.

SUPERVISION EXERCISED

Provides technical supervision over 1-3 contract personnel on an as needed or project basis.

DUTIES AND RESPONSIBILITIES

- Define and implement the data integration architecture to address IT and business objectives.
- Manage data integration best practices.
- Plan, execute and manage the integration of data across the data assets.
- Work with IT, business and data management teams to understand data needs and develop solutions.
- Develop standards, designs, data maps; developing and modifying functions, programs, routines and stored procedures to export, transform and load data.
- Collaborate with IT to design and model application data structures, storage and integration in accordance with enterprise wide architecture standards across legacy, web, and cloud and purchased package environments.
- Developing and executing test plans and scenarios including data design, tool design, data extract/transform, networks and hardware.
- Support data architecture solutions to meet technical and business requirements.
- Assist with data warehouse initiatives.
- Ensure appropriate capture and retention and metadata management of data.
- Support all processes to transform, consolidate and analyze structured and unstructured data.
- Follow procedures to ensure the quality, completeness, security, privacy, and integrity of data throughout the data lifecycle.
- Ensure compliance with HIPAA and other Federal and State required data policies/best practices.
- Document and maintain code using change control software.
- Write and maintain SQL code for ETL, reports and other needs, working with the IT DBA
- Contribute to the strategy and architecture for managing the enterprise's data.
- Provide technical support in development and execution of data extraction, transformation, and load activities.
- Develop a level of subject matter expertise with each new data asset being loaded.
- Write and maintain documentation of the data integration processes.



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- Communicate clearly and effectively with team members, customers, and management.
- Acquire knowledge and training in data integration techniques, tools and services to meet demands of the unit.

MINIMUM QUALIFICATIONS

The successful candidate will possess and/or demonstrate:

- A Bachelor's Degree in Computer Science or related discipline.
- Experience in data integration, data warehouse, big-data-related initiatives, development and implementation.
- Experience in architecture patterns and data integration design principles.
- Demonstrated ability to navigate and wrangle data from structured and unstructured data sources.
- Experience using data integration tools.
- Experience with data transformation techniques and services.
- Ability to work independently and as part of a team.
- Highly organized with attention to detail.
- Flexibility to meet continuously changing priorities and challenges.
- Advanced Excel capabilities and related data manipulation required.
- Experience in SQL Server Management Studio and SQL Server Integration Services.
- Experience in SQL, PL/SQL and Relational and Analytical Database concepts.
- Ability to multitask, prioritize and deliver results on time under pressure.
- Experience making data consumable for a variety of downstream purposes such as applications, visualizations, analytics and other related data science activities.
- Experience working within the IT procedures and data quality requirements.
- Adept in computer languages with good technical knowhow.
- Excellent written and verbal communication skills.
- Ability to communicate effectively, both orally and in writing.
- Ability to read, write, and comprehend the English language.

PREFERRED QUALIFICATIONS

Demonstrated experience in the following areas will also be important considerations:

- Knowledge about various architectures, patterns and protocols such as SSID, SSIS, ODBC, JDBC, unified data management architecture (UDM), event-driven architecture, real-time data flows, nonrelational repositories, data virtualization, cloud enablement, etc.
- Knowledge of and experience with multiple data integration platforms (Oracle Data Integrator, Informatica Platform, MS SQL Server, IBM InfoSphere, and Data warehouse MPP applications such Netezza, Teradata, etc.)
- Ability to regularly learn and adopt new technology
- A minimum of three years of job experience in a similar role.
- Advanced SQL and PL/SQL programming.
- Demonstrated ability to build effective relationships across diverse internal and external groups.



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- Ability to use analytical techniques such as critical and conceptual thinking to objectively analyze situations.
- Experience in data mining.
- Experience using data in a public policy context.
- Ability to devise solutions that maximize efficiency.
- Experience in the following programming languages: Python, C#, JavaScript, ASP.
- Experience in SQL including dynamic querying and generation of stored procedures and functions.
- Experience in process automation, especially shell scripting.
- Knowledge of database administration including data definitions, security roles, and system tables.
- Experience utilizing regular expressions.

No Phone Calls Please:

To apply, please submit an electronic copy of a cover letter and resume, no later than **November 10, 2022** via the MassCareers website: [Click Here](#)

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